

Department of Information Technology Government Polytechnic for Girls, Ahmedabad

A REPORT ON ONE DAY EDUCATION TOUR

Place of visit: Ganpat University, Ganpat Vidyanagar, Mehsana-Gandhinagar Highway, PO - Kherva, Mehsana, North Gujarat, India - 384012

Date: 25/03/2026

No of Participants: 53

Organized For: 6th Semester & 4th Semester

Faculty Coordinators: Mr. Nandu Fatak (HOD IT), Ms. R D Parekh, Ms N K Rathod

Introduction

An educational tour was organized for the students to Ganpat University with the objective of enhancing their practical knowledge and exposure to emerging technologies. Such tours play an important role in bridging the gap between theoretical learning and practical applications. Students got an opportunity to visit the university campus, interact with experts, and attend informative sessions on modern technological fields.

Objective of the Tour

The main objectives of the educational tour were:

- To provide students with exposure to a university learning environment.
- To enhance knowledge about recent technological advancements.
- To encourage students to explore new areas of technology and innovation.
- To provide an opportunity for interaction with experts and faculty members.

Activities During the Visit

5G Center Visit

Students visited the 5G Center where they learned about the latest advancements in 5G communication technology. Faculties explained the features of 5G networks such as high-speed connectivity, low latency, and its applications in various fields including smart cities, healthcare, and industrial automation. Students also observed demonstrations related to modern wireless communication technologies.

Embedded System Session

A lecture session on Embedded Systems was conducted for the students where the resource person explained the fundamentals and importance of embedded systems in modern electronic devices. The session covered topics such as microcontrollers, sensors, and the integration of hardware and software in embedded applications. Students gained knowledge about how embedded systems are used in devices like smart appliances, automobiles, and industrial machines.

IoT Department Visit

During the visit to the Internet of Things (IoT) Department, students were introduced to the concept of connected devices and smart systems. Faculty members explained how IoT technology enables communication between devices using sensors and internet connectivity. Students also observed IoT-based projects and applications used in smart homes, agriculture, and monitoring systems.

3D Printing Session

Students attended a session on 3D Printing technology where experts explained the concept of additive manufacturing. They demonstrated how digital designs are converted into physical objects using 3D printers. The session highlighted the applications of 3D printing in product prototyping, engineering design, healthcare, and manufacturing industries.

Bosch Rexroth Visit

Students visited the Bosch Rexroth facility where they learned about industrial automation and advanced motion control technologies. Experts explained the working of hydraulic, pneumatic, and electric drive systems used in modern manufacturing processes. This visit helped students understand the importance of automation in improving industrial productivity.

Ship Visiting

The ship visiting provided students with knowledge about marine technology and ship operations. Students learned about different parts of a ship such as the control area, engine room, and operational sections. The session gave them an overview of how ships function and the technology involved in marine transportation.

360-Degree Virtual Visit

Students also experienced a 360-degree virtual visit which allowed them to explore various facilities and environments through immersive digital technology. This interactive session helped students visualize complex systems and structures in a more engaging and realistic way.

Learning Outcomes

The educational tour provided several benefits to the students:

- Exposure to new technological concepts.
- Better understanding of practical applications of technology. .
- Improved awareness about career opportunities in emerging fields.

Conclusion

The educational tour to Ganpat University proved to be a highly enriching and informative experience for all the participating students. Such visits play a vital role in complementing classroom learning by providing practical exposure to real-world technologies and academic environments. Through this tour, students were able to observe the facilities and learning atmosphere of a reputed university, which helped them understand how higher education institutions support research, innovation, and technological development.

Photos:







Mapping with Programme Outcomes:

PO-1 Engineering knowledge	PO-2 Problem Analysis	PO-3 Design / development of solution	PO-4 Engineering Tools, Experimentation & Testing	PO-5 Engineering Practices for society, Sustainability and Environment	PO-6 Project Management	PO-7 Life-long learning solution
Addressed	Addressed	Addressed	Addressed	Not Addressed	Not Addressed	Addressed